

WHAT IS CLAIMED IS:

1. An electric transformer winding comprising:
  - (a) at least one plate of electric insulating material with a hole bored in the middle; and
  - (b) an electric conductor placed on at least one side of the plate and spiral-wound, the turns of which are electrically insulated from one another.
2. The electric winding according to claim 1 wherein the plate presents a spiral-shaped groove in which the electric conductor is accommodated.
3. The electric winding according to claim 1 wherein the plate is made of a material having a high thermal conductivity.
4. The electric winding according to one of claim 1 comprising a plurality of juxtaposed plates, each bearing a spiral-wound electric conductor, and in that the spirals of the electric conductor present an identical gyration, but are wound from outside in on one plate and from inside out on the adjacent plate.
5. The electric winding according to one of claim 2 comprising a plurality of juxtaposed plates, each bearing a spiral-wound electric conductor, and in that the spirals of the electric conductor present an identical gyration, but are wound from outside in on one plate and from inside out on the adjacent plate.
6. The electric winding according to one of claim 1 comprising a plurality of juxtaposed plates, each bearing a spiral-wound electric conductor, and in that the spirals of the electric conductor present an identical gyration, but are wound from outside in on one plate and from inside out on the adjacent plate.
7. The electric winding according to claim 4 wherein one plate presents a notch at the outer point of the spiral, while the adjacent plate presents a notch at the inner point of the spiral, so as to make the conductor pass from one plate to the adjacent plate on the coil winding operation.

8. The electric winding according to claim 5 wherein one plate presents a notch at the outer point of the spiral, while the adjacent plate presents a notch at the inner point of the spiral, so as to make the conductor pass from one plate to the adjacent plate on the coil winding operation.

9. The electric winding according to claim 6 wherein one plate presents a notch at the outer point of the spiral, while the adjacent plate presents a notch at the inner point of the spiral, so as to make the conductor pass from one plate to the adjacent plate on the coil winding operation.

10. The electric winding according to claim 1 wherein the electric conductor is of circular section.

11. The electric winding according to claim 2 wherein the bottom of the groove has the shape of a semicircle.

12. The electric winding according to claim 2 wherein the bottom of the groove is flat.

13. The electric winding according to claim 1 wherein the plate has the shape of a disk, the periphery of which is circular.

14. The electric winding according to claim 1 wherein the plate has the shape of a disk, the periphery of which is oval.

15. The electric winding according to claim 1 wherein the plate has the shape of a disk, the periphery of which is rectangular with rounded corners.

16. The electric winding according to claim 1 wherein the bore of the plate has a contour adapted to that of the support on which it is mounted.

17. The electric winding according to claim 1 wherein the sides of each of each plate comprise means for assembling the adjacent disks to one another and maintaining a filling space between them for an electric insulator of high thermal conductivity.

- 12

(j) repeating steps (d) to (i) until obtaining the winding on the plates of both pluralities of plates.

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